

## ABSTRACT OF THE DISCLOSURE

5 An electro discharge machining apparatus comprises  
a first holder for holding a workpiece to be subjected to  
electro discharge machining, an electrode provided opposing  
the workpiece held by the first holder, a capacitor for  
supplying electric charge to the electrode and the workpiece  
so as to generate pulse electro discharge between the  
workpiece and the electrode, a power source for applying  
10 a voltage to the capacitor, a switching element provided  
between the capacitor, and at least one of the electrode,  
the workpiece and the power source, a switch controller for  
controlling on and off of the switching element, a current  
detecting element for detecting a current flowing between  
15 the workpiece and the electrode, and a control unit for,  
based on the current detected by the current detecting  
element, judging whether or not a short circuit occurs  
between the workpiece and the electrode. When it is judged  
that a short circuit occurs between the workpiece and the  
20 electrode, the switch controller switches off the switching  
element for a predetermined time.